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Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed Jun 06 11:19:02 EDT 2007

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Application No: 10524643 Version No: 2.0

Input Set:

Output Set:

Started: 2007-06-05 17:49:44.046  
Finished: 2007-06-05 17:49:44.626  
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 580 ms  
Total Warnings: 8  
Total Errors: 1  
No. of SeqIDs Defined: 12  
Actual SeqID Count: 12

Error code	Error Description
E 257	Invalid sequence data feature in <221> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)

# SEQUENCE LISTING

<110> Bavarian Nordic A/S

<120> Vaccinia virus host range genes to increase the titer of  
avipoxviruses

<130> BN48PCT

<140> 10524643

<141> 2005-02-10

<150> US 10/524,043

<151> 2003-07-29

<150> DK PA 2002 01189

<151> 2002-09-08

<160> 12

<170> PatentIn version 3.3

<210> 1

<211> 615

<212> DNA

<213> MVA

<220>

<221> estimated promoter sequence for C7L in MVA

<222> (1)..(162)

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<221> CDS

<222> (163)..(615)

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aaattactat taacgccgctc ggtattcggt catccattca gt atg ggt ata cag	174
Met Gly Ile Gln	
1	
cac gaa ttc gac atc att att aat gga gat atc gcg ttg aga aat tta	222
His Glu Phe Asp Ile Ile Ile Asn Gly Asp Ile Ala Leu Arg Asn Leu	
5 10 15 20	
cag tta cat aaa ggg gat aac tac gga tgc aaa cta aaa att att tcg	270
Gln Leu His Lys Gly Asp Asn Tyr Gly Cys Lys Leu Lys Ile Ile Ser	
25 30 35	
aat gat tac aag aaa tta aag ttt aga ttc att ata cgc cca gat tgg	318
Asn Asp Tyr Lys Lys Leu Lys Phe Arg Phe Ile Ile Arg Pro Asp Trp	
40 45 50	

tcg gaa atc gac gag gtc aaa gga tta acc gta ttt gca aac aac tat	366
Ser Glu Ile Asp Glu Val Lys Gly Leu Thr Val Phe Ala Asn Asn Tyr	
55 60 65	
gcg gtg aaa gtt aat aag gta gat gac acg ttc tat tac gta ata tat	414
Ala Val Lys Val Asn Lys Val Asp Asp Thr Phe Tyr Tyr Val Ile Tyr	
70 75 80	
gag gct gta ata cat ctg tat aac aaa aaa aca gag ata ttg att tat	462
Glu Ala Val Ile His Leu Tyr Asn Lys Lys Thr Glu Ile Leu Ile Tyr	
85 90 95 100	
tct gat gat gag aac gaa ctc ttt aaa cac tat tac cca tac atc agt	510
Ser Asp Asp Glu Asn Glu Leu Phe Lys His Tyr Tyr Pro Tyr Ile Ser	
105 110 115	
cta aat atg att agt aaa aag tat aaa gtt aaa gaa gaa aac tac tca	558
Leu Asn Met Ile Ser Lys Lys Tyr Lys Val Lys Glu Glu Asn Tyr Ser	
120 125 130	
tcc ccg tat ata gaa cat ccg tta atc ccg tat aga gat tat gag tcc	606
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20 25 30	
Lys Ile Ile Ser Asn Asp Tyr Lys Lys Leu Lys Phe Arg Phe Ile Ile	
35 40 45	
Arg Pro Asp Trp Ser Glu Ile Asp Glu Val Lys Gly Leu Thr Val Phe	
50 55 60	
Ala Asn Asn Tyr Ala Val Lys Val Asn Lys Val Asp Asp Thr Phe Tyr	
65 70 75 80	
Tyr Val Ile Tyr Glu Ala Val Ile His Leu Tyr Asn Lys Lys Thr Glu	

Ile Leu Ile Tyr Ser Asp Asp Glu Asn Glu Leu Phe Lys His Tyr Tyr  
 100 105 110

Pro Tyr Ile Ser Leu Asn Met Ile Ser Lys Lys Tyr Lys Val Lys Glu  
 115 120 125

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 130 135 140

Asp Tyr Glu Ser Met Asp  
 145 150

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 <213> Canarypoxvirus

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 ctaatacctg taatagagta gtttttagacg gtagtagata cgttacaaaa acctttaatg 180  
 atacaatata aatggaacta actagagaaa cgctgatatt tgtaggcatt actgtactag 240  
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 catcagttat tagatcgctg ttcgtaggag ggaaaatatt aagatttatg gaggtattct 360  
 ctactgttat gtttatacca tcattagtaa tactttatac agcatatata aggaaatcta 420  
 aagtgaaaaa taactaaata ttatagtatt tgtaataaat ggctactgga gagattcgtc 480  
 ttattatagg gcctatgttt tcaggtaaaa caacagaatt agttagatta ataagaagat 540  
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 aagcatcttt ttctaagcgc atgactgatg ataaagatgt aaaagttata ggaggtaaag 960

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<213> Canarypoxvirus

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aactatacaa aatggattta gatattaaat cttgcagaag tatttaciaa atatgggata 180

aatatcattt tatgacaggg tataaatata aaaatgataa acagagattt aaaattacia 240

tttactgtaa atgtgattgt tctatcaaag aatatcctta tagatttggt actgagaaac 300

tgcttttaat gtatattatt aataagttta gaggaagta tctaatacaa attaggatag 360

aacccatagt taaaaattaa atcatatatc aatacatgtc agttttttat cgaaaaatgg 420

atttataaat aaaatgaaaa ataacttgaa tgaaggaaaa aataacccatg agtaaaaaac 480

cagtaaagac ggtccagcgt agacgtggaa acgatgagga taataagttt acttgatatcc 540

aagcgctaga acatgcaaaa agcttatgta ctaaaaataa taaaatagtt aaatctgtta 600

aactatcaca atctctcttt aagtcattcta acaatatttc tgtgatatta gaaccagaat 660

ataaagacia attagtgact cctcttatta ttgtagaagg tgaaggaaaa atataccata 720

ataagaatga tagttttaat cgtgaagaac cgtattttct aaaaatacga cctacgttaa 780

tgaatcctat attatatcag attatggaat gcatttatag agatctcaat tatttgatc 840

ccgagaatac gatggatgaa aaaacattta aagattgtca tctgtatatt aacggaaata 900

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23